Defense Supply Center Philadelphia (DSCP)
Directorate of Clothing and Textiles

RFID READER
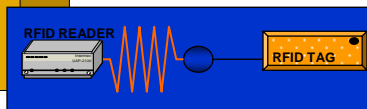
RFID TAG

Radio Frequency Identification Tags (RFID)
RFID Solutions
Alicia McGee, Defense Logistics Agency

DOD Focus on RFID

- DOD issued final RFID rule amending the DFARS, mandating **passive** ID tags for class II items (clothing) at the case and pallet level as of November 14th 2005.

- Passive Tags – Range of 10-30 ft
  - Less cost
  - No battery required
  - Low Radio Frequency strength from tag
  - Tags respond/reflect energy to reader

- **Para 211.275-3 Contract clause:** " clause 252.211-7006 in solicitations for contracts that will require delivery of items meeting the criteria at 211.275-2 ."
  - San Joaquin — Tracy, CA
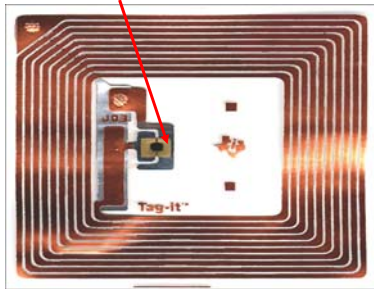 - Susquehanna — New Cumberland, PA

Electronic Product Code (EPC)

DFARS Specified TAGS

Class 0 64-bit read only, Class 1 (Gen 1 or Gen 2) 64-bit read-write

Class 0 96-bit read only, Class 1 (Gen 1 or Gen 2) 96-bit read-write

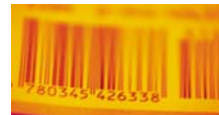**A Transition Plan to sole use of Gen 2 will be announced.**

The processor and memory are all in this chip, everything else you see is the antenna

DoD will only accept EPC compliant technology

Tag Data Constructs
Unique Serial Numbers

- "License Plate" has distinct data elements (64 bits)
  - DOD Identifier
  - Type of package identifier (e.g., pallet)
  - Vendor's CAGE
- RFID tag number is Advanced Shipment Notification (ASN)

Header	Filter	Government Managed Identifier (CAGE)	Serial Number
8 bits 1100 1110	2 bits	30 bits	24 bits

Header Value identifies the tag number as a DoD construct. It is unique from all other EPCglobal header values.

Case or pallet.

CAGE code is assigned by DLIS and is unique across suppliers.

Serial number is managed by the supplier and ensures uniqueness within the CAGE code.
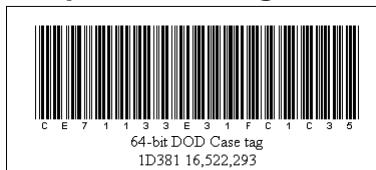
Pre-Printed EPC Standard Tag Labels (Option 1)

- A role of 1000 pre-printed/burned labels with embedded tags costs $3,500-$5000

- Optional barcode reader attached to keyboard to transfer tag data from tag to VIM-ASAP costs $200

- Enter (or swipe) the code when creating MSL

Wand

Unique RFID Tag Number

C E 7 1 1 3 3 E 3 1 F C 1 C 3 5
64-bit DOD Case tag
1D381 16,522,293

Combination Tag and Label Printers (Option 2)

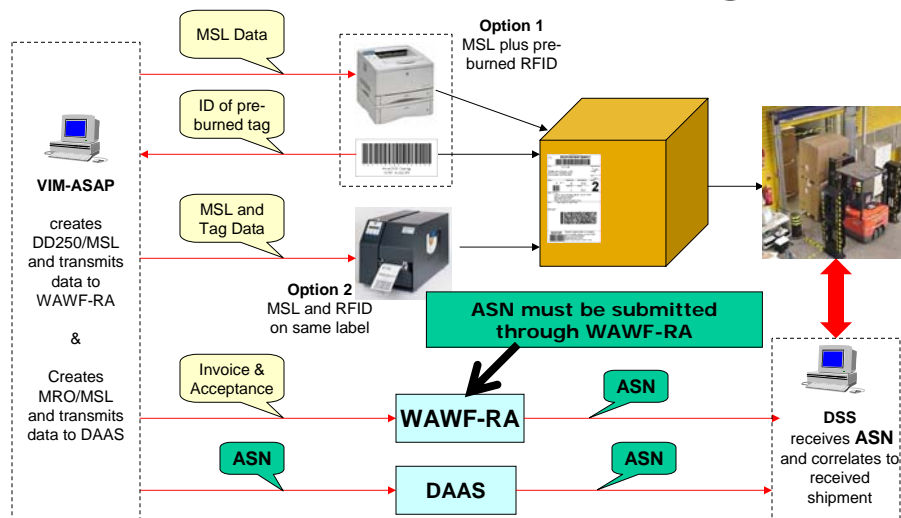Combination tag and label printers cost $4,000 - $5,200 and print labels at a rate of 6-12 feet per second

Hand-Held

A role of 500 labels with embedded RFID tags costs $300-$500

VIM-ASAP is testing a pilot program that can print the MSL on this printer as it burns the RFID tag

VIM-ASAP Vendor Support for DOD RFID Technologies

RFID Websites

- Presentation available at
  http://warfighter.dla.mil/newmenu/Contracting.jsp

- For information that can assist you with DoD's RFID policy visit:
  http://www.dodrfid.org
  - DoD RFID Supplier Implementation Plan (Passive)
  - DoD Suppliers' Passive RFID Information Guide
  - MIL-STD 129(Change 3) (Updated with RFID changes)
  - Wide Area Workflow (WAWF) & Advance Shipment Notice information

- RFID POCs at the Directorate of Clothing and Textiles
  - Renee' Baker 215-737-3211
  - Alicia McGee 215-737-8791
  - VIM-ASAP help desk 1-888-940-7348